

WHAT IS CLAIMED IS:

1. An active matrix substrate comprising:
switching elements disposed in a shape of a
matrix;

5 gate signal lines controlling the switching
elements;

source signal lines connected to the switching
elements and formed orthogonal to the gate signal lines;

an interlayer insulating film formed on the
10 switching elements, the gate signal lines, and the source
signal lines; and

pixel electrodes formed on the interlayer
insulating film and connected to the switching elements
through contact holes piercing through the interlayer
15 insulating film, wherein

the pixel electrodes are made from a
photosensitive conductive material.

2. The active matrix substrate as defined in Claim
1, wherein the photosensitive conductive material is
20 transparent.

3. The active matrix substrate as defined in Claim
1, wherein the photosensitive conductive material has
negative type photosensitivity.

4. The active matrix substrate as defined in Claim
25 1, wherein the photosensitive conductive material is made

from photosensitive resin and conductive particles dispersed in the photosensitive resin.

5 5. The active matrix substrate as defined in Claim 4, wherein the conductive particles are either indium tin oxide, antimony tin oxide, or zinc oxide.

6. The active matrix substrate as defined in Claim 1, wherein the photosensitive conductive material contains color agents.

10 7. A flat panel display device having the active matrix substrate as defined in Claim 1.

8. A flat panel image sensing device having the active matrix substrate as defined in Claim 1.